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Relevance scale **1 A high-level approach to computer document formatting**

Brian K. Reid

January 1980 **Proceedings of the 7th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**Full text available:  pdf(685.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The very best document-formatting system is a good secretary. He can be given scrawled handwritten text in no particular format, and without further instruction produce a flawless finished document. Nevertheless, we believe that document formatting should be done by computers, because so much of it is the tedium that computers handle so well. Existing computer document formatting programs have met with some success; indeed, most computer systems offer some sort of text formatting capability. The ...

**2 A tour through cedar**

Warren Teitelman

March 1984 **Proceedings of the 7th international conference on Software engineering**Full text available:  pdf(2.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 A structural view of the Cedar programming environment**

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

Full text available:  pdf(6.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

**4 Browsing and querying in online documentation: a study of user interfaces and the interaction process**

Morten Hertzum, Erik Frøkjær

**June 1996 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 3 Issue 2**

Full text available:  pdf(340.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A user interface study concerning the usage effectiveness of selected retrieval modes was conducted using an experimental text retrieval system, TeSS, giving access to online documentation of certain programming tools. Four modes of TeSS were compared: (1) browsing, (2) conventional boolean retrieval, (3) boolean retrieval based on Venn diagrams, and (4) these three combined. Further, the modes of TeSS were compared to the use of printed manuals. The subjects observed were 87 computing new ...

**Keywords:** documentation, interaction process, online manuals, usage effectiveness

**5 Proceedings of the SIGNUM conference on the programming environment for development of numerical software**

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Full text available:  pdf(5.02 MB) Additional Information: [full citation](#)

**6 Documentation for a model: a hierarchical approach**

Saul I. Gass, Karla L. Hoffman, Richard H. F. Jackson, Lambert S. Joel, Patsy B. Saunders  
November 1981 **Communications of the ACM**, Volume 24 Issue 11

Full text available:  pdf(605.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A set of documents and their organization according to functional requirements in order to produce information that will facilitate the use of models are described. The authors discuss the role of models in the policy process and of documentation in the assessment of such models.

**Keywords:** model documentation, model evaluation and assessment, policy model utility

**7 Development and documentation of computer programs in undergraduate computer science programs**

Linda L. Deneen, Keith R. Pierce

February 1988 **ACM SIGCSE Bulletin , Proceedings of the nineteenth SIGCSE technical symposium on Computer science education**, Volume 20 Issue 1

Full text available:  pdf(560.59 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Until recently, introductory programming classes in the Department of Computer Science, University of Minnesota, Duluth, concentrated on writing code. Not until the junior or senior year were students required to adhere to basic principles of software engineering. As might be expected, by their junior year students' bad habits, like coding while designing or inserting comments last, were firmly entrenched and difficult, if not impossible, to undo. The solution, it seemed to us, w ...

**8 PEN: A hierarchical document editor**

Todd Allen, Robert Nix, Alan Perlis

June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available:  pdf(834.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Three terms in common usage in computerized text processing are text-editing, word-processing, and computer controlled typesetting. This paper deals with a fourth term,

manuscript preparation, that has important intersections with the above three. A computerized manuscript preparation system is one that supports an author in the preparation of a manuscript. In what follows we deal with one such, the PEN sys ...

**9 System documentation as software**

Geoffrey James Sickler

January 1982 **Proceedings of the 1st annual international conference on Systems documentation**

Full text available:  pdf(311.39 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Accuracy, Timeliness, Flexibility, and Low Cost—computer buyers want BETTER documentation, they want it NOW, they want it to suit THEIR NEEDS, and they want it CHEAP. Unfortunately, current documentation methods have failed to satisfy these needs. The inadequacies of the traditional technical manual are well known to anyone who has tried to use one, regardless of the herculean effort it probably took to collect and publish the damn thing. Typically, the resources that could ...

**10 Interactive Editing Systems: Part II**

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**11 Draft Proposed: American National Standard—Graphical Kernel System**

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available:  pdf(16.07 MB) Additional Information: [full citation](#)

**12 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**13 Business: an end-user oriented application development language**

Peter B. Miller, Sergey Tetelbaum, Kincade N. Webb

October 1981 **ACM SIGMOD Record**, Volume 12 Issue 1

Full text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

BUSINESS is a new application development language intended to answer the needs of a rapidly growing user community - the end-user. The underlying computational model is the paper office. BUSINESS instructions manipulate objects within this model in ways analogous to human office workers. The syntax of BUSINESS closely approximates a subset of English. Standard programming functions are embodied in the language in ways that seem natural to first time computer users. For example, to open a file f ...

**14 Semantic analysis of virtual classes and tested classes**

Ole Lehrmann Madsen

**October 1999 ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications, Volume 34 Issue 10**Full text available:  pdf(1.82 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Virtual classes and nested classes are distinguishing features of BETA. Nested classes originated from Simula, but until recently they have not been part of main stream object-oriented languages. C++ has a restricted form of nested classes and they were included in Java 1.1. Virtual classes is the BETA mechanism for expressing generic classes and virtual classes is an alternative to parameterized classes. There has recently been an increasing interest in virtual classes and a number of pro ...

**Keywords:** generic class, parameterized class, semantic analysis, virtual class**15 CLAW, a high level, portable, Ada 95 binding for Microsoft Windows**

Randall Brukardt, Tom Moran

**November 1997 Proceedings of the conference on TRI-Ada '97**Full text available:  pdf(2.00 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16 Human-computer interface development: concepts and systems for its management**

H. Rex Hartson, Deborah Hix

**March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1**Full text available:  pdf(7.97 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

**17 CODASYL Data-Base Management Systems**

Robert W. Taylor, Randall L. Frank

**January 1976 ACM Computing Surveys (CSUR), Volume 8 Issue 1**Full text available:  pdf(2.82 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Attribute grammar paradigms—a high-level methodology in language implementation**

Jukka Paakki

**June 1995 ACM Computing Surveys (CSUR), Volume 27 Issue 2**Full text available:  pdf(5.15 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Attribute grammars are a formalism for specifying programming languages. They have been applied to a great number of systems automatically producing language implementations from their specifications. The systems and their specification languages can be evaluated and classified according to their level of application support, linguistic characteristics, and degree of automation. A survey of attribute grammar-based specification languages is given.

The modern advanced specification ...

**Keywords:** attribute grammars, blocks, classes, compiler writing systems, functional dependencies, incomplete data, incrementality, inheritance, language processing, language processor generators, lazy evaluation, logical variables, objects, parallelism, processes, programming paradigms, semantic functions, symbol tables, unification

**19 Integrated computer aided design, documentation and manufacturing system for PCB electronics** 

Mikko Tervonen, Hannu Lehtinen, Timo Mukari

June 1983 **Proceedings of the 20th conference on Design automation**

Full text available:  pdf(648.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an integrated computer aided design, documentation and manufacturing system, which assures data integrity from physical design to manufacturing with the aid of one phase data input and integrated parts data base. Unique features of the system are comprehensive documentation support for PCB electronics, one-phase user friendly data input, intensive input data checking, support for part and document numbering and PCB numbering, user definable document formats and language ...

**20 Document architecture and text formatting** 

Arno J. H. Peels, Norbert J. M. Janssen, Wop Nawijn

October 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 4

Full text available:  pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The formalization of the architecture of documents and text formatting are the central issues of this paper. Besides a fundamental and theoretical approach toward these topics, an overview is presented of the COBATEF system. The COBATEF system is a context-based text formatting system, for which a software, as well as a hardware, implementation is available. A unique feature of the system is its automatic text-element recognition mechanism, which is context based and consequently ...

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